



PTO/SB/08A (08-03)

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Substitute for form 1449/PTO

Complete if Known**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Sheet 1

of 14

Application Number	10/709,653
Filing Date	May 20, 2004
First Named Inventor	Tucker, et al.
Art Unit	3672
Examiner Name	

Attorney Docket Number 78.1182

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (<i>If known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
b		US- 4150476	04-24-1979	Kita	
b		US- 4077734	03-07-1978	Kita	
		US- 3603414	09-07-1971	Stbley	
		US- 4289211	09-15-1981	Lumen	
		US- 4176725	12-04-1979	Shields	
		US- 2121202	06-21-1938	Killgore	
		US- 2626128	01-20-1953	Boice	
		US- 3134447	05-26-1964	McElya et al.	
		US- 3388757	06-18-1968	Fittinger	
		US- 3401759	09-17-1968	White	
		US- 3442342	05-06-1969	McElya et al.	
		US- 3495668	02-17-1970	Schumacher Jr	
		US- 3599737	08-17-1971	Fischer	
		US- 3628616	12-21-1971	Neilson	
		US- 3726350	04-10-1973	Pessier	
		US- 3727705	04-17-1973	Newman	
		US- 3952815	04-27-1976	Dysart	
a		US- 3970158	07-20-1976	Black et al.	
a		US- 4006788	02-08-1977	Garner	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (<i>If known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
b		EP0501258 A1	09-02-1992	Hughes Tool Co		
		EP0500514 A1	08-26-1992	Sandvik Aktiebo		
		EP0476352 A1	03-25-1992	Hughes Tool Co		
		EP0467870 A1	01-22-1992	Smith Inter		
		EP0453428 A1	10-23-1991	Sandvik Aktiebo		
		EP0449415 A2	02-21-1991	Camco Internat		

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Sheet 12	of 14	Attorney Docket Number	78.1182

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		US- 4058177	11-15-1977	Langford, Jr et al.
		US- 4067406	01-10-1978	Garner et al.
		US- 4086973	05-02-1978	Keller et al.
		US- 4108260	08-22-1978	Bozarth
		US- 4108692	08-22-1978	Quinlan
		US- 4140189	02-20-1979	Garner
		US- 4148368	04-10-1979	Evans
		US- 4150728	04-24-1979	Garner et al
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		US- 4211508	07-08-1980	Dill et al.
		US- 4231438	11-04-1980	Garner et al.
		US- 4254840	03-10-1981	Shay, Jr
		US- 4303137	12-01-1981	Fischer
		US- 4334586	06-15-1982	Schumacher
		US- 4343371	08-10-1982	Baker, III et al.

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		EP0142941 A1	05-29-1985	Smith Internat
		EP0955445 A2	11-10-1999	GE
		EP0916804 A1	05-19-1999	GE
		EP0890705 A3	01-13-1999	Baker Hughes
		EP0852283 A3	07-08-1998	GE
		EP0823535 A2	08-05-1997	Baker Hughes

Examiner Signature	<i>[Signature]</i>	Date Considered	9/16/05
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D		US- 4343372	08-10-1982	Kinzer	
G		US- 4359335	11-16-1982	Garner	
		US- 4372404	02-08-1983	Drake	
		US- 4386669	06-07-1983	Evans	
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		US- 4641718	02-10-1987	Bengtsson	
		US- 4657093	04-14-1987	Schumacher	

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D		EP0802301 A2	10-22-1997	Baker Hughes		
		EP0747566 A1	12-11-1996	Baker Hughes		
		EP0723066 A3	07-24-1996	Baker Hughes		
		EP0527506 A3	02-17-1993	Smith Inter		
G		EP0511547 A2	11-04-1992	Smith Inter		
		GB2279095 A	12-21-1994	Smith Inter		

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		Number-Kind Code ² (<i>If known</i>)		
		US- 4679640	07-14-1987	Crawford
		US- 4683781	08-04-1987	Kar et al.
		US- 4694918	09-22-1987	Hall
		US- 4708752	11-24-1987	Kar
		US- 4716977	01-05-1988	Huffstutler
		US- 4722405	02-02-1988	Langford Jr.
		US- 4764255	08-16-1988	Fischer et al.
		US- 4781770	11-01-1988	Kar
		US- 4811801	03-14-1989	Salesky et al.
		US- 4832139	05-23-1989	Minikus et al.
		US- 4867015	09-19-1989	Kane et al.
		US- 4869329	09-26-1989	Kar et al.
		US- 4887493	12-19-1989	Drake
		US- 4940099	07-10-1990	Deane et al.
		US- 4953641	09-04-1990	Pessier
		US- 4966627	10-30-1990	Keshavan et al.
		US- 4969378	11-13-1990	Lu et al.
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (<i>If known</i>)		
		GB2274129 A	07-13-1994	Smith Inter
		GB2273726 A	06-29-1994	Baker Hughes
		GB2273301 A	06-15-1994	Smith Inter
		GB2270526 A	03-16-1994	Smith Inter
		GB2253642 A	09-16-1992	Dresser Indus
		GB2158101 A	11-06-1985	Smith Inter

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Q		US- 5045092	09-03-1991	Keshavan	
Q		US- 5074367	12-24-1991	Estes	
		US- 5119714	06-09-1992	Scott et al.	
		US- 5145016	09-08-1992	Estes	
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		US- 5172777	12-22-1992	Siracki et al.	
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		US- 5248006	09-28-1993	Scott et al	
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		US- 5279374	01-18-1994	Sievers et al.	
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		US- 5282512	02-01-1994	Besson et al.	
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Q		GB2064619 A	06-17-1981	Smith Inter		
Q		EP1190791 A2	03-27-2002	Camco Inter		
		EP1182325 A1	02-27-2002	Schlumberger		
		GB2327962 A	02-10-1999	Smith Inter		
		GB2323613 A	09-30-1998	Baker Hughes		
		GB2316112 A	02-18-1998	Baker Hughes		

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		US- 5291807	03-08-1994	Vanderford et al.	
		US- 5304342	04-19-1994	Hall, Jr. et al.	
		US- 5305840	04-26-1994	Liang, et al.	
		US- 5322138	06-21-1994	Siracki	
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		US- 5335738	08-09-1994	Waldenstrom et al.	
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		US- 5370195	12-06-1994	Keshavan et al	
		US- 5372210	12-13-1994	Harrell	
		US- 5377773	01-03-1995	Tibbitts	
		US- 5379853	01-10-1995	Lockwood et al.	
		US- 5379854	01-10-1995	Dennis	

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		GB2307918 A	06-11-1997	Smith Inter		
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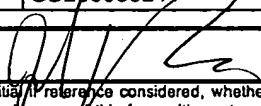
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		US- 5394952	03-07-1995	Johns et al.	
		US- 5407022	04-18-1995	Scott et al.	
		US- 5415243	05-16-1995	Lyon et al.	
		US- 5415244	05-16-1995	Portwood	
		US- 5421423	06-06-1995	Huffstutler	
		US- 5421424	06-06-1995	Portwood et al.	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document <small>Country Code³-Number⁴-Kind Code⁵ (if known)</small>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		GB2281330 A	03-01-1995	Smith Inter		
		GB2335155 A	09-15-1999	Smith Inter		
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		GB2334278 A	08-18-1999	Smith Inter		
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		GB2330852 A	05-05-1999	Smith Inter		

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Substitute for form 1449/PTO

Complete if Known**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
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Sheet 8 of 14

Application Number	10/709,653
Filing Date	May 20, 2004
First Named Inventor	Tucker, et al.
Art Unit	3672
Examiner Name	

Attorney Docket Number 78.1182

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		US- 5590727	01-07-1997	Tank et al.	
		US- 5592995	01-14-1997	Scott et al.	
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		US- 5624068	04-29-1997	Waldenstrom et al.	
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
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		Application Number	10/709,653
		Filing Date	May 20, 2004
		First Named Inventor	Tucker, et al.
		Art Unit	3672
		Examiner Name	
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		Number-Kind Code ² (if known)		
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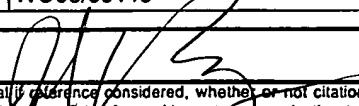
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		Application Number	10/709,653
		Filing Date	May 20, 2004
		First Named Inventor	Tucker, et al.
		Art Unit	3672
		Examiner Name	
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		WO98/59148	12-30-1998	Baker Hughes

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/709,653
Sheet	11	Filing Date	May 20, 2004
	of 14	First Named Inventor	Tucker, et al.
		Art Unit	3672
		Examiner Name	
		Attorney Docket Number	78.1182

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		US- 6059054	05-09-2000	Portwood et al.
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		US- 6065552	05-23-2000	Scott et al.
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		WO93/25795	12-23-1993	Baker Hughes
		WO00/00655	01-06-2000	Sandvik AB
		GB2396367 A	06-23-2004	Smith Inter

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Sheet 12

of 14

Application Number	10/709,653
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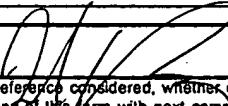
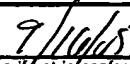
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
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Sheet 14

of 14

Application Number	10/709,653
Filing Date	May 20, 2004
First Named Inventor	Tucker, et al.
Art Unit	3672
Examiner Name	

Attorney Docket Number 78.1182

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